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PTO/SB/81 (02-01)

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Application Number	09/910,684
Filing Date	July 20, 2001
First Named Inventor	Michael Y.T. Hwang et al.
Title	Memory Control Apparatus and Efficient Search Pattern for Block-Matching Motion Estimation
Group Art Unit	2614
Examiner Name	
Attorney Docket Number	18170-002600US

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Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name

Robert C. McClelland

Signature

Robert C. McClelland

Date

9-25-01

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.
Submit multiple forms if more than one signature is required, see below*.

*Total of _____ forms are submitted.

OCT 09 2001

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Michael Y.T. Hwang et al.

Application No./Patent No.: 09/910,684

Filed/Issue Date: July 20, 2001

Entitled: Memory Control Apparatus and Efficient Search Pattern for Block-Matching Motion Estimation

Divio, Inc. a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or
2. an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

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Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

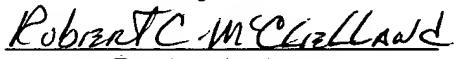
The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

9-25-01

Date



Signature



Typed or printed name

CFO

Title

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ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Michael Y.T. Hwang, of 54 Seabreeze Drive, Richmond, California 94804; Chung-Ta Lee, of 1262 Pome Avenue, Sunnyvale, California 94087; Yi Liu, of 7015 Bright Star Lane, Austin, Texas 78736; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: Memory Control Apparatus and Efficient Search Pattern for Block-Matching Motion Estimation

Filing Date: **July 20, 2001**

Application No.: 09/910,684; and

WHEREAS, **Divio, Inc.**, a corporation of the State of California, located at 441 De Guigne Drive, Sunnyvale, California, 94085, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 9-21-01

Dated: 9/19/2001

Dated: 9/19/2001

Witnesses:

Michael Y.T. Hwang

Chung-Ta Lee

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COPY